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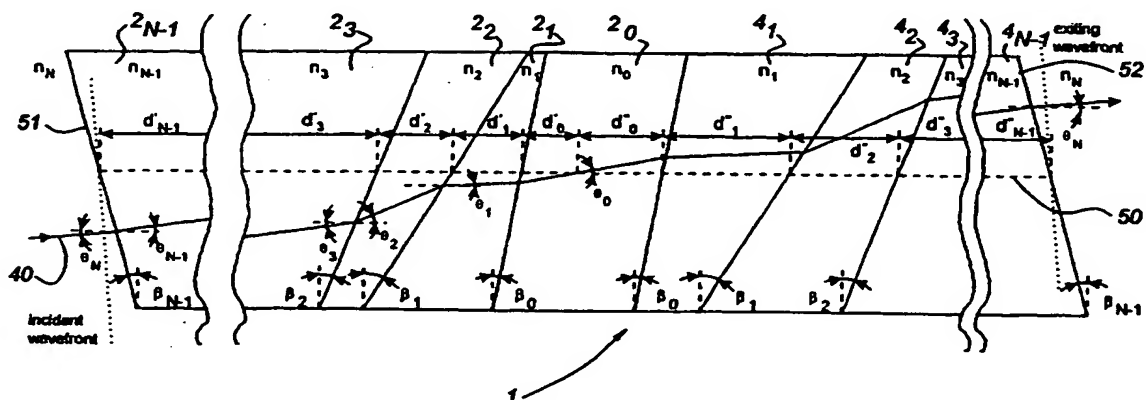
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(54) Title: ACHROMATIC PHASE SHIFT DEVICE AND INTERFEROMETER USING ACHROMATIC PHASE SHIFT DEVICE



(57) Abstract: The present invention relates to an achromatic phase shift device (1) for introducing a wavelength independent optical phase shift in a first optical beam (40) during operation, comprising at least one dispersive element (55<sub>k</sub>) formed by first refractive means (2<sub>k</sub>) and second refractive means (4<sub>k</sub>), the first refractive means (2<sub>k</sub>) having a first refractive means input plane (6) for receiving the first optical beam (40) and a first refractive means output plane (8) being at a predetermined angle (β) to each other, the second refractive means (4<sub>k</sub>) having a second refractive means input plane (10) and a second refractive means output plane (12) being positioned parallel to the first refractive means input plane (6). The device may comprise further pairs (55<sub>k</sub>) of respective first and second refractive means (2<sub>k</sub>, 4<sub>k</sub>). The present invention also relates to an interferometer comprising at least one achromatic phase shift device.

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